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FEB 17 2009

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 99104CON/MBL	FOR FURTHER ACTION	See Notifis Preliminary	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/1	nonth/year)	Priority date (day/month/year)	
PCT/US00/28957	99 SEPTEMBER 9000		01 OCTOBER 1999	
International Patent Classification (IPC) IPC(7): Co9D11/00; Co9R 3/00; Co9C	PC 06/81.75, 106	5/\$16, 106/476		
Applicant CABOT CORPORATION				
Examining Authority and is	transmitted to the applicant		ed by this International Preliminary Article 36.	
2. This REPORT consists of a	total ofsheets.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCI).				
These annexes consist of a tot	al of sheets.			
3. This report contains indication	s relating to the following its	ems:		
I 🔣 Basis of the repor	rt			
II Priority				
III Non-establishmen	it of report with regard to no	velty, invent	ive step or industrial applicability	
IV Lack of unity of	invention			
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement			inventive step or industrial applicability,	
VI Certain documents				
VII Certain defects in the	he international application			
VIII Certain observations on the international application				
Date of submission of the demand	Data	of completion	of this report	
NACY AN AMOUNTABLISH OF THE MENTARM	Date	a, completion	supers	
24 APRIL 2001	0-	4 APRIL 2009	2 1	
Name and mailing address of the IPEA/	US April	orized officer		
Commissioner of Patents and Trademy		on on the same	ATA. 1 AA 1	
Box FCT	[7	Caylor Victor	antill William I	
Washington, D.C. 20231				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	
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				PCT/U\$00/26957
I. B	asis of the repo	rt		
1. Witt		ments of the internation	==	
X	the internation	al application as o	riginally filed	
\mathbf{x}	the description			
لتب	pages	1-29		as originally filed
	pages	NONE		, filed with the demand
	pages	NONE	, filed with the letter of	
x	the olaims:			
	pages	30-33		, as originally filed
	pages	NONE	, as amended (together	with any statement) under Article 19
	pages	NONE		, filed with the demand
	pages	NONE	_ , filed with the letter of	
X	the drawings:	*************************************		· · · 15#1#
	pages	NONE		as originally filed
	pages	NONE	~ · · · · · · · · · · · · · · · · · · ·	, filed with the demand
	pages	NONE	, filed with the letter of	
x	the sequence li	sting part of the de	scription:	
ب	pages	NONE		, as originally filed
	pages			, filed with the demand
			, filed with the letter of	
	the language o	f a translation fur f publication of th	ed to this Authority in the following languarished for the purposes of international international application (under Rushed for the purposes of international pre-	al search (under Rule 23.1(b)).
			amino acid sequence disclosed in the i	international application, the international
	-		plication in printed form.	
			nal application in computer readable	form.
H			uthority in written form.	
	furnished subs	equently to this A	uthority in computer readable form.	
	The statement international ap	that the subsequently optication as filed h	ly fumished written sequence listing do as been furnished.	es not go beyond the disclosure in the
	The statement the	hat the information r	recorded in computer readable form is ide	entical to the writen sequence listing has
4. X	The amendme	ents have resulted i	in the cancellation of:	
	X the desc	ription, pages	NONE	
	X the clair	ms, Nos.	NONB	
	X the drav	vings, sheets /fig _	NONE	
5.				de, since they have been considered to go
* <i>Re</i> r	beyond the dis	closure as filed, as in	ndicated in the Supplemental Box (Rule 7 had to the receiving Office in response 10 at	0.2(c)).** n invitation under Article 14 are referred to do not contain curendments (Rules 70.16
ana	! <i>70.17</i>).		amendments must be referred to under its	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/26957

V.	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	statement				
	Novelty (N)	Claims	5, and 8-19	YES	
		Claims	1-4, 6-7, and 20-28	NO	
	Inventive Step (IS)	Claims	none	YES	
	• • •	Claims	1-3, 6-7, and 20-31	NO	
	Industrial Applicability (IA)	Claims	1-51	YES	
		Claims	попе	NO	

2. citations and explanations (Bule 70.7)

Claims 1-4, 6-7, and 20-28 lack novelty under PCT Article 59(2) as being clearly anticipated by Adams et al (US 5,688,016).

Adams et al disclose a modified pigment such as carbon black having attached at least one organic group (see col. 5, lines 28-34) and at least an amphiphilic (see col. 6 lines 25-36), which can have a charge opposite to that of the organic ionic group (see col. 1, lines 1-58); furthermore, for the organic group attached to the carbon, the organic group can be at least one atomatic group or one C₁-C₂₂ alkyl group (see col. 1, lines 1-58).

Furthermore, the reference does indicate that the formation of a non-aqueous or aqueous emulsion inkjet ink contains a suitable vehicle, binders and additives (see col. 9 lines 45-59). Moreover, Adams et al disclose a carbon black with a polymeric cationic amphiphile (see col. 20, lines 1-58) such as methyl scrylate, methyl methacrylate, butyl acrylate, styrene (see col. 4, lines 14-16). The claimed compounds are identical with the compounds disclosed in the reference.

Claims 89-31 lack an inventive step under PCT Article 35(5) as being obvious over Adams et al(US 5,698,016) in view of Kato et al(US 5,751,115).

Adams et al disclose a modified pigment such as carbon black with a polymeric cationic amphiphile (see col. 20

However, Adams et al differ from the instant invention in that a print plate contains a substrate, a protective layer and an absorptive layer containing at least one modified pigment and a method of imaging a lithographic print plate using a laser is not disclosed, along with subjecting the plate to a solvent for the removal of portions from the imaged

Kato et al disclose a preparation of a waterless lithographic printing plate by using a laser beam (see col. 3, lines 8-11). Furthermore, the photoconductive layer includes a substrate with a precoated layer (see col. 9, lines 40-50), charge (Continued on Supplemental Sheet.)

INTERNATIONAL P	RELIMINARY	EXAMINATION	REPORT
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International application No.

PCT/US00/25967

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIX

Sheet 10

V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Consimued):
generating agents including organic pigments (see col. 6, lines 65-67) such as carbon black (see col. 17, line 18). Moreover, in
the wet process, the non-tacky resin layer is treated with a solvent to remove portions from the imaged layer (see col. 31, lines
13-15).

Therefore, if the person having an ordinary skill in the art had desired to improve the properties of the printing plate, it would have been obvious for the skillful artisan in the art to have used Adams et al's modified carbon black with a polymeric cationic amphiphile in the Kato et al's preparation of the waterless lithographic printing plate as an alternative to the ordinary carbon black with an expectation of a similar success as in the Kato et al's process.

Claims 5 and 8-19 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest the claimed compounds.

_____ NEW CITATIONS -----

US 5,731,115 A (KATO et al) 24 MARCH 1998, see col. 1, lines 12-13, col. 9, lines 40-67; col. 10, lines 1-2.